

Structural Equation Modeling

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I. Course Objectives

II. Reference Materials

A. Books

Loehlin, J.C. 1992. Latent variable models: An introduction to factor, path, and structural analysis, 2nd ed. Lawrence Erlbaum Associates, Publishers, Hillsdale, NJ

Bollen, K.A. 1989. Structural equations with latent variables. John Wiley & Sons, New York.

Pugesek, B.H., A. Tomer, A. Von Eye. 2003. Structural equation modeling: Applications in ecology and evolutionary biology. Cambridge University Press, Cambridge.

Grace, J.B. 2006. Structural equation modeling and natural systems. Cambridge University Press, Cambridge

B. Internet Resources

<http://users.ugent.be/~ flievens/stat.htm#Structural>

[http://nrmsc.usgs.gov/research/Pugesek/TrainingMaterials/
SEMNET](http://nrmsc.usgs.gov/research/Pugesek/TrainingMaterials/SEMNET)

III. Matrix Algebra

Review Elements of Matrix Algebra handout

IV. Programs Implementing Structural Equation Models

A. EQS

B. AMOS

C. Mplus

D. SAS (Proc Calis)

E. Mx (**Free**)

F. LISREL

V. What Is Structural Equation Modeling

Path Analysis With Latent Variables

VI. Path Models



